

## Anti-ERBB2 antibody

<b>Cat. No.</b>	ml163227
<b>Package</b>	25 µl/100 µl/200 µl
<b>Storage</b>	-20°C, pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol

### Product overview

<b>Description</b>	Anti-ERBB2 rabbit polyclonal antibody
<b>Applications</b>	ELISA, WB, IHC
<b>Immunogen</b>	Synthetic peptide of human ERBB2
<b>Reactivity</b>	Human, Mouse, Rat
<b>Content</b>	0.5 mg/ml
<b>Host species</b>	Rabbit
<b>Ig class</b>	Immunogen-specific rabbit IgG
<b>Purification</b>	Antigen affinity purification

### Target information

<b>Symbol</b>	ERBB2
<b>Full name</b>	erb-b2 receptor tyrosine kinase 2
<b>Synonyms</b>	NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu
<b>Swissprot</b>	P04626

### Target Background

The ErbB2 (HER2) proto-oncogene encodes a 185 kDa transmembrane, receptor-like glycoprotein with intrinsic tyrosine kinase activity. While ErbB2 lacks an identified ligand, ErbB2 kinase activity can be activated in the absence of a ligand when overexpressed and through heteromeric associations with other ErbB family members. Amplification of the ErbB2 gene and overexpression of its product are detected in almost 40% of human breast cancers. Binding of the c-Cbl ubiquitin ligase to ErbB2 at Tyr1112 leads to ErbB2 poly-ubiquitination and enhances degradation of this kinase. ErbB2 is a key therapeutic target in the treatment of breast cancer and other carcinomas and targeting the regulation of ErbB2 degradation by the c-Cbl-regulated proteolytic pathway is one potential therapeutic strategy. Phosphorylation of the kinase domain residue Tyr877 of ErbB2 (homologous to Tyr416 of pp60c-Src) may be involved in regulating ErbB2 biological activity. The major autophosphorylation sites in ErbB2 are Tyr1248 and Tyr1221/1222; phosphorylation of these sites couples ErbB2 to the Ras-Raf-MAP kinase signal transduction pathway.

订购热线: 4008-898-798

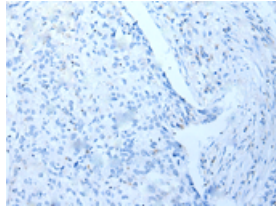
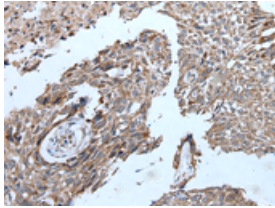
## Applications

### Immunohistochemistry

Predicted cell location: Cytoplasm and Cell membrane

Positive control: Human lung cancer

Recommended dilution: 20-100

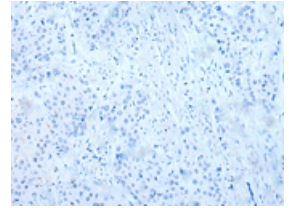
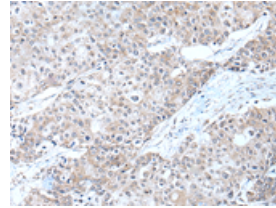


The image on the left is immunohistochemistry of paraffin-embedded Human lung cancer tissue using ml163227(ERBB2 Antibody) at dilution 1/35, on the right is treated with synthetic peptide. (Original magnification:  $\times 200$ )

Predicted cell location: Cytoplasm and Cell membrane

Positive control: Human prostate cancer

Recommended dilution: 20-100



The image on the left is immunohistochemistry of paraffin-embedded Human prostate cancer tissue using ml163227(ERBB2 Antibody) at dilution 1/35, on the right is treated with synthetic peptide. (Original magnification:  $\times 200$ )

### Western blotting

Predicted band size: 138 kDa

Positive control: Hela and HUVEC cell lysates

Recommended dilution: 200-1000

Gel: 6%SDS-PAGE

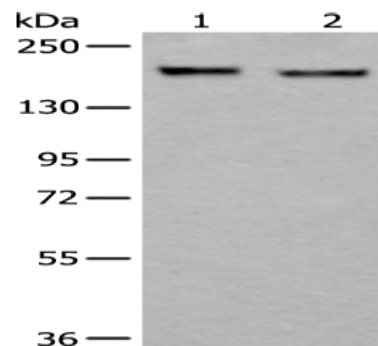
Lysate: 40  $\mu$ g

Lane 1-2: Hela and HUVEC cell lysates

Primary antibody: ml163227(ERBB2 Antibody) at dilution 1/350

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 1 minute



### ELISA

Recommended dilution: 5000-10000

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